

Title (en)

Improved polymer composition and process for producing vulcanizates thereof

Title (de)

Verbesserte Polymerzusammensetzung und Verfahren zur Herstellung von Vulkanisaten daraus

Title (fr)

Composition polymère améliorée et procédé de fabrication de vulcanisats à partir de celle-ci

Publication

**EP 1111003 A2 20010627 (EN)**

Application

**EP 00126412 A 20001205**

Priority

CA 2292158 A 19991215

Abstract (en)

A polymer composition useful to produce a vulcanizate having improved compound scorch safety is described. The polymer composition includes three components. The first component is a polymer selected from the group comprising nitrile polymers and ethylene polymers. The second component is a salt of a strong base and a weak acid, the salt comprising a metal selected from Group I of the Periodic Table of Elements. The third component is a vulcanization system comprising an inorganic peroxide compound and a sulfur containing compound. The polymer compositions may further comprise optional ingredients such as one or more of: a polycarbodiimide and a filler. Vulcanizates produced from the polymer composition have a surprising and unexpected combination of properties.

IPC 1-7

**C08K 13/00**; **C08L 9/02**; **C08L 15/00**; **C08J 3/24**

IPC 8 full level

**C08J 3/24** (2006.01); **C08K 3/00** (2006.01); **C08K 5/00** (2006.01); **C08K 13/00** (2006.01); **C08L 9/02** (2006.01); **C08L 23/06** (2006.01); **C08L 33/18** (2006.01)

CPC (source: EP KR US)

**C08K 13/00** (2013.01 - EP US); **C08L 9/02** (2013.01 - KR)

Cited by

US6794452B2; EP1491583A1; US8426524B2; WO2008070878A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1111003 A2 20010627**; **EP 1111003 A3 20030305**; BR 0005885 A 20010717; CA 2292158 A1 20010615; CN 1303884 A 20010718; HK 1038580 A1 20020322; JP 2001192524 A 20010717; KR 20010070302 A 20010725; MX PA00012372 A 20020709; US 2001004660 A1 20010621

DOCDB simple family (application)

**EP 00126412 A 20001205**; BR 0005885 A 20001214; CA 2292158 A 19991215; CN 00135397 A 20001215; HK 02100213 A 20020111; JP 2000382475 A 20001215; KR 20000076280 A 20001214; MX PA00012372 A 20001213; US 73523700 A 20001212